# **Beam Power Tube**

For Use as a Horizontal-Deflection Amplifier Tube in Color and Black-and-White Television Receivers

### GENERAL DATA

Electrical:	
Heater Characteristics and Ratings:  Voltage (AC or DC)	olts amp
	olts
	olts
Grid No.1 to phate 0.5 Grid No.1 to cathode & grid No.3,	pf
grid No.2, and heater 23.0  Plate to cathode & grid No.3,	pf
grid No.2, and heater 11.0	pf
Characteristics, Class A Amplifier:	
Triode Connec- tion <sup>c</sup>	•
Grid No.2 (Screen-Grid) Voltage	olts olts olts ohms mhos ma ma
Mechanical:	
Operating Position.  Type of Cathode	5" /16" /16" T12 1-1) -Pin

Pin 1-Grid No.1 Pin 2-Heater Pin 3-Cathode, Grid No.3 Pin 4-Grid No.2

Pin 5-Grid No.1



Pin 6 - Cathode, Grid No.3 Pin 7 - Heater Pin 8 - Grid No.2 Cap - Plate

#### HORIZONTAL-DEFLECTION AMPLIFIER

#### → Maximum Ratings, Design-Maximum Values:

For o	peration	in	а	525-line,	30-frame	system e
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DC PLATE-SUPPLY VOLTAGE	990 max. vo	olts
PEAK POSITIVE-PULSE PLATE VOLTAGE <sup>f</sup>	6500 max. vo	olts
PEAK NEGATIVE-PULSE PLATE VOLTAGE	1100 max. vo	olts
DC GRID-No.2 (SCREEN-GRID) VOLTAGE	190 max. vo	olts
PEAK NEGATIVE-PULSE GRID-No.1 VOLTAGE	250 max. vo	olts
CATHODE CURRENT:		
Peak	1100 max.	ma
Average	315 max.	ma
GRID-No.2 INPUT	3.2 max. wa	atts
PLATE DISSIPATION9	24 max. wa	itts
BULB TEMPERATURE (At hottest		
point on bulb surface)	220 max.	oC

#### Maximum Circuit Values:

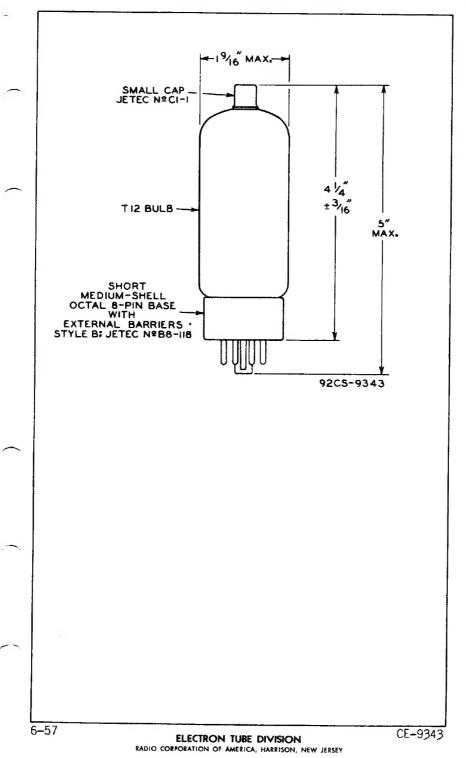
Grid-No.1-Circuit Resistance:

For grid-resistor-bias operation . . . 0.47 max. megohm

- a The dc component must not exceed 100 volts.
- b without external shield.
- with grid No. 2 connected to plate.
- d These values can be measured by a method involving a recurrent wave form such that the plate dissipation, grid-No. 2 input, and cathode current will be kept within ratings in order to prevent damage to the tube.
- As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations", Federal Communications Commission.
- This rating is applicable where the duration of the voltage pulse does not exceed 15 per cent of one horizontal scanning cycle. In a 525-line, 30-frame system, 15 per cent of one horizontal scanning cycle is 10 microseconds.
- 9 It is essential that the plate dissipation be limited in the event of loss of grid signal. For this purpose, some protective means such as a cathode resistor of suitable value be employed.



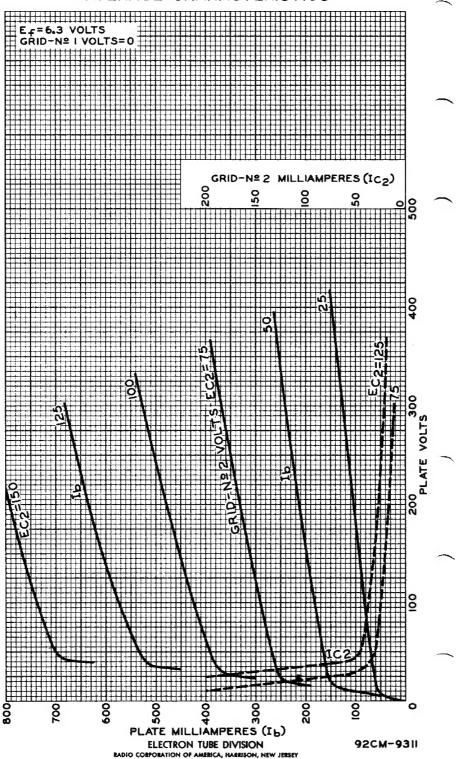
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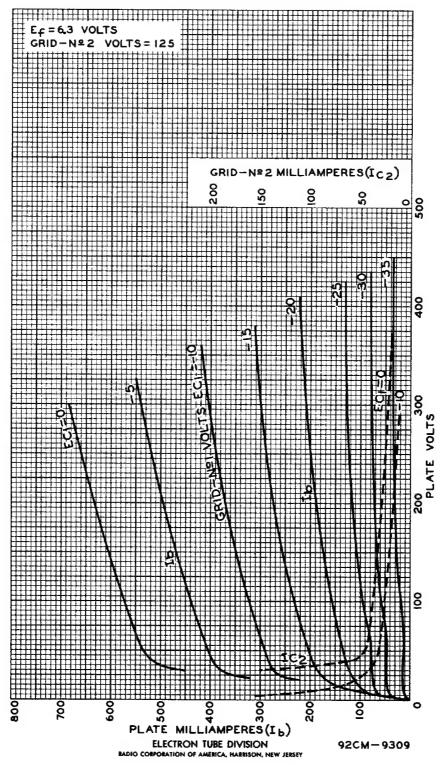


### AVERAGE CHARACTERISTICS





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